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OIT-0659-86

6 AUG 1986

MEMORANDUM FOR: Acting Chief, Engineering Division, OC

25X1
FROM:

[redacted]
Deputy Director, Development and Engineering, OIT

SUBJECT: Application of MERCURY to the Domestic Network

REFERENCE: OC Memorandum 5922-86, dtd 15 Jul 86, Same Subject

1. We look forward to working with the Engineering Division of the Office of Communications in exploring a MERCURY alternative for our domestic network.

25X1
2. Per your request in the reference, we have sent you, separately, two documents [redacted]. The first document (Phase I) is an Analysis of the Domestic Network, while the second document (Phase II) is a Survey of Alternatives.

3. OIT would like to understand how a MERCURY alternative would provide the "full service" capabilities described herein to the recommended network configuration. Where does MERCURY have a solution to our problems, what would the cost be to OIT, and when would these solutions be available to us? Also, what are the limitations to a MERCURY alternative and what requirements would a MERCURY alternative not address at all?

25X1
25X1
4. [redacted] will be the OIT Project Leader for this evaluation effort. He can be contacted [redacted]

Attachment:
As stated

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OC-5922-86

13 JUL 1986

RECEIVED
13 JUL 1986

MEMORANDUM FOR: Deputy Director for Operations, OIT

25X1 FROM:

[REDACTED]
Acting Chief, Engineering Division, OC

25X1 SUBJECT: Application of MERCURY to the Domestic Network

REFERENCE: OIT Memorandum 0531-86, dtd 30 June 86, Same Subject

1. The Engineering Division welcomes the opportunity to join with OIT in assessing alternate applications of the MERCURY System for the domestic field environment and participating in the development of a plan which addresses both near and long term MERCURY related implementation strategies for the domestic network. There is a broad range of considerations that must be addressed that will require the combined expertise of our respective organizations and a commitment of resources to ensure timely resolution of the issues involved. [REDACTED]

2. Attached is a partial list of these issues that were presented at the meeting attended by you and your staff on 8 July 1986 that we believe can be used as a starting point in organizing our approach for analyzing the role of MERCURY in your communications system. Topping this list is the subject of operational requirements which need to be delineated as the first order of business. We will look to OIT for the requirements definition, which should include a characterization of your network needs in terms of types of services, data rates, interfaces, special operational considerations, etc. [REDACTED]

3. [REDACTED] MERCURY Packet Switch Segment Chief, will orchestrate the Office of Communications activities on this

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25X1 SUBJECT: Application of MERCURY to the Domestic Network ☐

25X1 evaluation and planning task. It is requested that your primary
25X1 representative contact him as soon as possible
25X1 to initiate the formalization of this effort.

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ISSUES RELATING TO MERCURY PLANNING FOR THE DOMESTIC NETWORK

OPERATIONAL REQUIREMENTS

STAT



INTERFACES

TERMINAL

ASYNCHRONOUS

SNA

SYNCHRONOUS

HOST

X.25

ASYNCHRONOUS

SNA

MHF

OTHERS

SYSTEM CONFIGURATIONS

PACKET SWITCH

MESSAGE SWITCH

NETWORK

SCHEDULE/PHASING

IOCp

FINAL PSS CONFIGURATION

MESSAGE SWITCH

DEPENDENCIES

CURRENT CAPITAL INVESTMENT

MANNING REQUIREMENTS

INSTALLATION

OPERATIONS

MAINTENANCE

CONTRACTOR SUPPORT

INSTALLATION

SITE INTERFACE SPECIFICATIONS

SITE PREPARATION

FIELD DEPLOYMENT

TEST & CUTOVER

PACKET SWITCH (IOCp/FINAL)

MESSAGE SWITCH

PARALLEL OPERATIONS

PHASE OUT OF MAX/SPARS

ISSUES RELATING TO MERCURY PLANNING FOR THE DOMESTIC NETWORK
(CONTINUED)

MAINTENANCE (HARDWARE/SOFTWARE)

STAT



TRAINING
OPERATIONS
MAINTENANCE

NETWORK MANAGEMENT & CONTROL

ALTERNATE SITES

LONG RANGE PLANS/GOALS

FUNDING REQUIREMENTS